

## Form PTO-1449

(Rev. 8-83)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

2267.001

Serial No.

09/877,999

p.1 of 3

Applicant

Ranger et al.

Filing Date

06/07/01

Group

1741

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

## U. S. PATENT DOCUMENTS

| Examiner Initial | DOCUMENT NUMBER | Date     | Name         | Class | Subclass | Filing Date if Appropriate |
|------------------|-----------------|----------|--------------|-------|----------|----------------------------|
| PS               | 5 7 7 0 6 2 7   | 06/23/98 | Inoue et al  |       |          |                            |
| PS               | 5 9 5 5 5 0 9   | 09/21/99 | Webber et al |       |          |                            |

## FOREIGN PATENT DOCUMENTS

| Document Number | Date | Country | Class | Subclass | Translation Yes No |
|-----------------|------|---------|-------|----------|--------------------|
|                 |      |         |       |          |                    |
|                 |      |         |       |          |                    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| PS | Jones et al., Polymeric micelles - a new generation of colloidal drug carriers, Eur. J. Pharmaceut. Biopharmaceut., (1999) 48, pp101-111  |
|    | Kwon et al., Polymeric micelles as new drug carriers, Adv. Drug Deliv. Rev., (1996) 21, pp107-116   |
|    | Allen et al., Nano - engineering block copolymer aggregates for drug delivery, Colloids Surf. B, (1999) 16, pp3-27  |
|    | Zhao et al., Fluorescence probe techniques used to study micelle formation in water-soluble block copolymers, Langmuir, (1990) 6, pp514-516   |
|    | Kabanov et al., The neuroleptic activity of haloperidol increases after its solubilization in surfactant micelles: Micelles as microcontainers for drug targeting, FEBS, (1989) 258, 2, pp343-345                             |
|    | Zhang et al., Multiple morphologies of "crew - cut" aggregates of polystyrene -b- poly (acrylic acid), Science, (1995), 268, pp1728-1731  |
|    | Inoue et al., An AB block copolymer of oligo(methyl methacrylate) and poly(acrylic acid) for micellar delivery of hydrophobic drugs, J. Controlled Release, (1998) 51, pp221-229  |
|    | Kataoka, Design of nanoscopic vehicles for drug targeting based on micellization of amphiphilic block copolymers, J. Macromol. Sci. - Pure Appl. Chem., (1994) A31, 11, pp1759-1769   |
| PS | Kataoka et al., Doxorubicin-loaded poly(ethylene glycol)-poly( $\beta$ -benzyl-L-aspartate) copolymer micelles: their pharmaceutical characteristics and biological significance, J. Controlled Release, (2000) 64, pp143-153 |

EXAMINER

DATE CONSIDERED

2/12/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449

(Rev. 8-83)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

2267.001

Serial No.

09/ 877,999

p.2 of 3

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant

Ranger et al.

Filing Date

06/07/01

Group

1741

## U. S. PATENT DOCUMENTS

| Examiner Initial | DOCUMENT NUMBER | Date     | Name           | Class | Subclass | Filing Date if Appropriate |
|------------------|-----------------|----------|----------------|-------|----------|----------------------------|
| RS               | 5 6 9 3 7 5 1   | 12/02/97 | Sakurai et al  |       |          |                            |
| 1                | 5 7 0 2 7 1 7   | 12/30/97 | Cha et al      |       |          |                            |
| 1                | 5 9 3 9 4 5 3   | 08/17/99 | Heller et al   |       |          |                            |
| RS               | 5 7 8 6 3 8 7   | 07/28/98 | Watanabe et al |       |          |                            |

## FOREIGN PATENT DOCUMENTS

| Document Number | Date | Country | Class | Subclass | Translation Yes No |
|-----------------|------|---------|-------|----------|--------------------|
|                 |      |         |       |          |                    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| RS | Benahmed et al., Novel polymeric micelles based on the amphiphilic diblock copolymer poly(N-vinyl-2-pyrrolidone)-block-poly(D,L-lactide), Pharmaceut. Res., (2001) 18, 3, pp323-328                               |
| 1  | Lee et al., Synthesis and micellar characterization of amphiphilic diblock copolymers based on poly(2-ethyl-2-oxazoline) and aliphatic polyesters, Macromol., (1999) 32, pp1847-1852                              |
| 1  | Scholz et al., A novel reactive polymeric micelle with aldehyde groups on its surface, Macromol., (1995) 28, pp7295-7297  |
| 1  | Lele et al., Mucoadhesive drug carriers based on complexes of poly(acrylic acid) and PEGylated drugs having hydrolysable PEG-anhydride-drug linkages, J. Controlled Release, (2000) 69, pp237-248                 |
| 1  | Kataoka et al., Spontaneous formation of polyion complex micelles with narrow distribution from antisense oligonucleotide and cationic block copolymer in physiological saline, Macromol., (1996) 29, pp8556-8557 |
| 1  | Kakizawa et al., Environment-sensitive stabilization of core-shell structured polyion complex micelle by reversible cross-linking of the core through disulfide bond, J. Am. Chem.Soc., (1999) 121, pp11247-11248 |
| RS | Coessens et al., Functional polymers by atom transfer radical polymerization, Prog. Polym. Sci., (2001) 26, pp337-377   |
| RS |   |

EXAMINER

DATE CONSIDERED

2/13/02

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Form PTO-1449

(Rev. 8-83)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

2267.001

Serial No.

09/877,999

p.3 of 3

Applicant

Ranger et al.

Filing Date

06/07/01

Group

1741

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

## U. S. PATENT DOCUMENTS

| Examiner Initial | DOCUMENT NUMBER | Date     | Name           | Class | Subclass | Filing Date if Appropriate |
|------------------|-----------------|----------|----------------|-------|----------|----------------------------|
| RS               | 5 8 4 0 3 1 9   | 11/24/98 | Alakhov et al  |       |          |                            |
|                  | 5 9 2 9 1 7 7   | 07/27/99 | Kataoka et al  |       |          |                            |
|                  | 5 9 2 5 7 2 0   | 07/20/99 | Kataoka et al  |       |          |                            |
|                  | 5 6 5 6 6 1 1   | 08/12/97 | Kabanov et al  |       |          |                            |
|                  | 6 2 1 7 9 1 2   | 04/30/01 | Park et al     |       |          |                            |
|                  | 6 2 2 1 9 5 9   | 04/24/01 | Kabanov et al  |       |          |                            |
| RS               | 5 5 1 0 1 0 3   | 04/23/96 | Yokoyama et al |       |          |                            |
|                  |                 |          |                |       |          |                            |
|                  |                 |          |                |       |          |                            |
|                  |                 |          |                |       |          |                            |

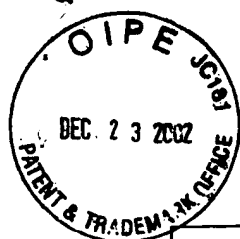
## FOREIGN PATENT DOCUMENTS

| Document Number | Date | Country | Class | Subclass | Translation No |
|-----------------|------|---------|-------|----------|----------------|
|                 |      |         |       |          |                |
|                 |      |         |       |          |                |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|          |                         |  |
|----------|-------------------------|--|
|          |                         |  |
|          |                         |  |
|          |                         |  |
| EXAMINER | DATE CONSIDERED 2/12/03 |  |

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



# 9 / I . D . S .

Sheet 1 of 1

Form PTO-1449  
(Rev. 2-88)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
2267.001

APPLICATION NO.  
09/877,989

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

APPLICANT  
RANGER et al.

DEC 27 2002

FILING DATE  
06/08/01

GROUP  
1635

(Use several sheets if necessary)

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

| EXAMINER'S<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME          | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|-----------------------|-----------------|-------|---------------|-------|----------|-------------------------------|
| RS                    | 5,620,850       | 04/97 | Bamdad et al. |       |          |                               |
| RS                    | 5,908,777       | 06/99 | Lee et al.    |       |          |                               |
|                       |                 |       |               |       |          |                               |
|                       | DOCUMENT NUMBER | DATE  | COUNTRY       | CLASS | SUBCLASS | TRANSLATION<br>YES NO         |
| RS                    | EP 0 963 758 A2 | 12/99 | Europe        |       |          | X                             |
|                       | WO 98/19710     | 05/98 | PCT           |       |          | X                             |
|                       | WO 96/32841     | 10/96 | PCT           |       |          | X                             |
|                       | WO 96/21036     | 07/96 | PCT           |       |          | X                             |
|                       | WO 98/37902     | 09/98 | PCT           |       |          | X                             |
| RS                    | WO 97/33737     | 09/97 | PCT           |       |          | X                             |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

EXAMINER

2050

DATE CONSIDERED

2/12/03

\* EXAMINER: Initial if a citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.